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(11) **EP 0 810 793 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
22.11.2000 Bulletin 2000/47

(51) Int. Cl.⁷: **H04N 7/50**, H04N 7/36,
H04N 7/52, H04N 5/14

(43) Date of publication A2:
03.12.1997 Bulletin 1997/49

(21) Application number: **97108604.6**

(22) Date of filing: **28.05.1997**

(84) Designated Contracting States:
DE FR GB

(30) Priority: **30.05.1996 JP 13618596**

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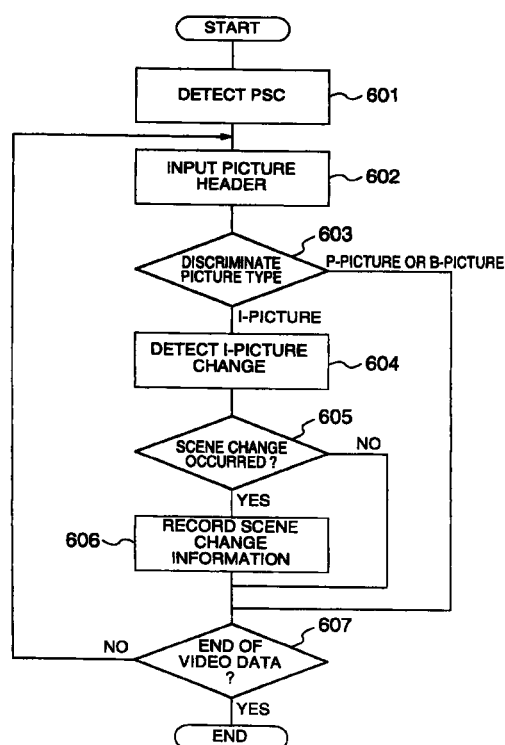
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(54) **A method of and an apparatus for decoding video data**

(57) An information processing apparatus for processing video data and video data with audio data includes a scene change detecting device (Figs. 5, 26, and 28) for particularly detecting a scene change of video data. The video data scene change detecting device includes an intra-coded frame detecting device for detecting a scene change between an intra-coded frame contained in video data and an intra-coded frame preceding the frame and a scene change information recording device for recording scene change information detected by the intra-coded frame detecting device (Figs. 6, 11, 14, and 17).

FIG.6



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EUROPEAN SEARCH REPORT

Application Number
EP 97 10 8604

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	US 5 404 174 A (SUGAHARA TAKAYUKI) 4 April 1995 (1995-04-04)	1,4,8	H04N7/50
Y	* column 4, line 34 - column 5, line 15 *	2	H04N7/36
A	* column 9, line 38 - column 10, line 38 *	2,5,9, 13,14, 21-25	H04N7/52
	---		H04N5/14
X	US 5 459 517 A (KAMIZAWA KOH ET AL) 17 October 1995 (1995-10-17)	4	
Y	* column 6, line 19 - line 50 *	5,6	
A	* column 7, line 36 - column 9, line 5 *	1,2,7-9, 11-16, 21-25	
	* column 9, line 53 - column 10, line 39 *		

Y	EP 0 587 397 A (FUJITSU LTD) 16 March 1994 (1994-03-16)	2,5,6	
A	* column 8, line 5 - line 55 *	1,4,7-9, 11,12	
	* column 14, line 35 - line 56 *		
	* column 15, line 33 - column 16, line 2 *		
	* column 20, line 33 - line 44 *		
	* column 25, line 19 - column 26, line 5 *		

A	US 5 471 239 A (HILL PHILIP N C ET AL) 28 November 1995 (1995-11-28)	4,6-8, 11-13, 15,16	
	* column 7, line 9 - line 51 *		

A	EP 0 675 495 A (SIEMENS CORP RES INC) 4 October 1995 (1995-10-04)	1,3	
	* page 7, line 1 - line 32 *		

A	EP 0 615 245 A (NIPPON ELECTRIC CO) 14 September 1994 (1994-09-14)	1,3	
	* page 3, column 4, line 33 - page 4, column 5, line 10 *		

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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		29 September 2000	Marie-Julie, J-M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03.82 (P04C01)



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Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 10 8604

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	PATEL N V , SETHI I K: "Audio characterization for video indexing" STORAGE AND RETRIEVAL FOR STILL IMAGE AND VIDEO DATABASES IV, vol. 2670, 1 - 2 February 1996, pages 373-384, XP000950031 San Jose, USA * paragraph [0004] * -----	17-20	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 29 September 2000	Examiner Marie-Julie, J-M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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29-09-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5404174 A	04-04-1995	JP 2611607 B	21-05-1997
		JP 6022298 A	28-01-1994
US 5459517 A	17-10-1995	JP 3036287 B	24-04-2000
		JP 6236439 A	23-08-1994
		JP 2000076462 A	14-03-2000
EP 0587397 A	16-03-1994	JP 6133305 A	13-05-1994
		DE 69328656 D	21-06-2000
		DE 69328656 T	31-08-2000
		EP 0961495 A	01-12-1999
		US 5614960 A	25-03-1997
US 5471239 A	28-11-1995	GB 2272598 A,B	18-05-1994
		JP 6508491 T	22-09-1994
		WO 9319467 A	30-09-1993
EP 0675495 A	04-10-1995	NONE	
EP 0615245 A	14-09-1994	JP 2518503 B	24-07-1996
		JP 6259052 A	16-09-1994
		DE 69418367 D	17-06-1999
		DE 69418367 T	14-10-1999
		US 5493345 A	20-02-1996